

INTERNATIONAL SEARCH REPORT

International Application No
PC 1/1B 03/02358

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G11B7/24

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, INSPEC

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	EP 0 331 233 A (PHILIPS) 6 September 1989 (1989-09-06) page 8, line 28 - line 56; claims 1,4-12	1
A	US 5 976 638 A (S J PICKEN) 2 November 1999 (1999-11-02) cited in the application claims 1,2	1
A	US 5 032 009 A (W M GIBBONS) 16 July 1991 (1991-07-16) claim 1; figures 1-4	1
A	US 5 353 247 A (S M FARIS) 4 October 1994 (1994-10-04) claims 1,43; figures 7,8	1

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents:

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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S document member of the same patent family

Date of the actual completion of the international search

16 September 2003

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Information on patent family members

Int'l Application No

PCT/IB 03/02358

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 331233 A	06-09-1989	NL 8802832 A	18-09-1989
		DE 68927986 D1	28-05-1997
		DE 68927986 T2	06-11-1997
		EP 0331233 A2	06-09-1989
		JP 2006927 A	11-01-1990
		JP 2849672 B2	20-01-1999
		KR 147367 B1	15-09-1998
		US 4983479 A	08-01-1991
US 5976638 A	02-11-1999	CA 2114081 A1	27-07-1994
		CN 1093731 A	19-10-1994
		EP 0608924 A1	03-08-1994
		JP 7041573 A	10-02-1995
US 5032009 A	16-07-1991	US 4974941 A	04-12-1990
		AT 167308 T	15-06-1998
		CA 2011383 A1	08-09-1990
		DE 69032379 D1	16-07-1998
		DE 69032379 T2	08-10-1998
		DE 387059 T1	11-04-1991
		DK 387059 T3	29-03-1999
		EP 0387059 A2	12-09-1990
		ES 2116976 T3	01-08-1998
		JP 2277025 A	13-11-1990
		JP 2575224 B2	22-01-1997
		NO 901075 A	10-09-1990
US 5353247 A	04-10-1994	NONE	

Σ. D. Mory 1/16/08